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1 Protecting privacy using the decentralized label model

Andrew C. Myers, Barbara Liskov

October 2000   **Transactions on Software Engineering and Methodology (TOSEM)** , Volume 9 Issue 4

Publisher: ACM 🔖 Request Permissions

Full text available: 📄 Pdf (294.13 KB)   Additional Information: full citation, abstract, references, cited by, index terms, review

Bibliometrics: Downloads (6 Weeks): 11,   Downloads (12 Months): 132,   Citation Count: 47

Stronger protection is needed for the confidentiality and integrity of data, because programs containing untrusted code are the rule rather than the exception. Information flow control allows the enforcement of end-to-end security policies, but has been ...

Keywords: confidentiality, declassification, downgrading, end-to-end, information flow controls, integrity, lattice, policies, principals, roles, type checking

2 Secure program partitioning

Steve Zdancewic, Lantian Zheng, Nathaniel Nystrom, Andrew C. Myers

August 2002   **Transactions on Computer Systems (TOCS)** , Volume 20 Issue 3

Publisher: ACM 🔖 Request Permissions

Full text available: 📄 Pdf (497.12 KB)   Additional Information: full citation, abstract, references, cited by, index terms

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This paper presents secure program partitioning, a language-based technique for protecting confidential data during computation in distributed systems containing mutually untrusted hosts. Confidentiality and integrity policies can be expressed by annotating ...

Keywords: Confidentiality, declassification, distributed systems, downgrading, integrity, mutual distrust, secrecy, security policies, type systems

3 Building security requirements with CLASP

John Viega

July 2005   **SESS '05:** Proceedings of the 2005 workshop on Software engineering for secure systems—building trustworthy applications

Publisher: ACM

Full text available: Pdf (68.43 KB)   Additional Information: full citation, abstract, references, index terms

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Traditionally, security requirements have been derived in an *ad hoc* manner. Recently, commercial software development organizations have been looking for ways to produce effective security requirements.In this paper, we show how to build security ...

Keywords: application security, security process, security requirements

Also published in:
July 2005 **SIGSOFT Software Engineering Notes** Volume 30 Issue 4

4 Amicus: Dendrite International, Inc. v. John Does

Paul Alan Levy, J. C. Salyer

April 2002   **CFP '02:** Proceedings of the 12th annual conference on Computers, freedom and privacy

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Full text available: Pdf (189.08 KB)   Additional Information: full citation, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 0,   Downloads (12 Months): 19,   Citation Count: 1

5 Virtual enterprise access control requirements

M. Coetzee, Jan H. P. Eloff

September 2003   **SAICSIT '03:** Proceedings of the 2003 annual research conference of the South African institute of computer scientists and information technologists on Enablement through technology

Publisher: South African Institute for Computer Scientists and Information Technologists

Full text available: Pdf (126.63 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 6,   Downloads (12 Months): 82,   Citation Count: 4

Current developments in IT point towards the formation of loosely coupled enterprises, often referred to as virtual enterprises. These enterprises require both secure and flexible collaboration between unrelated information systems. Web services technology ...

Keywords: B2B, SOAP, XML, access control, design, federation, management, roles, security, standardization, trust, virtual enterprises, web services

6 Privacy, information technology, and health care

Thomas C. Rindfleisch

August 1997 **Communications of the ACM**, Volume 40 Issue 8

Publisher: ACM ◇ Request Permissions

Full text available: pdf (561.04 KB)   Additional Information: full citation, references, cited by, index terms, review

Bibliometrics: Downloads (6 Weeks): 61, Downloads (12 Months): 696, Citation Count: 16

7 Control-flow integrity

Martín Abadi, Mihai Budiu, Úlfar Erlingsson, Jay Ligatti

November 2005 **CCS '05:** Proceedings of the 12th ACM conference on Computer and communications security

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Full text available: pdf (218.60 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 22, Downloads (12 Months): 179, Citation Count: 25

Current software attacks often build on exploits that subvert machine-code execution. The enforcement of a basic safety property, Control-Flow Integrity (CFI), can prevent such attacks from arbitrarily controlling program behavior. CFI enforcement is ...

Keywords: binary rewriting, control-flow graph, inlined reference monitors, vulnerabilities

8 Web-based interactive courseware for information security

Andy Ju An Wang

October 2005 **SIGITE '05:** Proceedings of the 6th conference on Information technology education

Publisher: ACM ◇ Request Permissions

Full text available: pdf (346.90 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 126, Citation Count: 2

Interactive courseware encourages student participation and active learning. Prior research and teaching experience has shown that IT students prefer to learn information security in a hands-on manner. How do we offer information security as a distance ...

Keywords: active learning, information security, interactivity

9 Anonymous E-prescriptions

Giuseppe Ateniese, Breno de Medeiros

November 2002   **WPES '02:** Proceedings of the 2002 ACM workshop on Privacy in the Electronic Society

Publisher: ACM   Request Permissions

Full text available: Pdf (304.10 KB)   Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 78, Citation Count: 0

This paper studies issues related to privacy protection of medical data, arguing that the topic is suitable for applied cryptographic research. We present the problem of medicine prescription privacy and describe a practical system that employs standard ...

Keywords: medical information privacy, privacy-preserving cryptographic techniques, public-key cryptography

10 UNICORN: misuse detection for UNICOS

Gary G. Christoph, Kathleen A. Jackson, Michael C. Neuman, Christine L. B. Siciliano, Dennis D. Simmonds, Cathy A. Stallings, Joseph L. Thompson

December 1995   **Supercomputing '95:** Proceedings of the 1995 ACM/IEEE conference on Supercomputing (CDROM)

Publisher: ACM

Full text available: Html (43.88 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 25, Citation Count: 1

An effective method for detecting computer misuse is the automatic auditing and analysis of on-line user activity. This activity is reflected in the system audit record, by changes in the vulnerability posture of the system configuration, and in other ...

Keywords: anomaly detection, computer misuse, auditing, UNICOS, computer security, hacking, intrusion detection, security logs

11 Consumer privacy concerns about Internet marketing

Huaiqing Wang, Matthew K. O. Lee, Chen Wang

March 1998   **Communications of the ACM**, Volume 41 Issue 3

Publisher: ACM   Request Permissions

Full text available: Pdf (188.85 KB)   Additional Information: full citation, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 67, Downloads (12 Months): 747, Citation Count: 21

12 Risks to the public in computers and related systems

Peter G. Neumann

May 2004   **SIGSOFT Software Engineering Notes**, Volume 29 Issue 3

Publisher: ACM

Full text available: Pdf (128.46 KB)   Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 70, Citation Count: 0

13 SAFKASI: a security mechanism for language-based systems

Dan S. Wallach, Andrew W. Appel, Edward W. Felten

October   **Transactions on Software Engineering and Methodology**
2000   **(TOSEM)** , Volume 9 Issue 4
Publisher: ACM Request Permissions

Full text available: pdf (234.89   Additional Information: full citation, abstract, references, cited
                            KB)   by, index terms

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 60,   Citation Count: 24

In order to run untrusted code in the same process as trusted code, there must
be a mechanism to allow dangerous calls to determine if their caller is authorized
to exercise the privilege of using the dangerous routine. Java systems have
adopted a technique ...

Keywords: Internet, Java, WWW, access control, applets, security-passing style,
stack inspection

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